

NEWS AND VIEWS OF FARMERS



RUDIMENTS OF FARMING

Valuable Instructions to Boys Regarding the Growing of Farm Crops.

BY HIRAM H. SHEPARD.

Field and garden plants must have soil room in which their roots can

The rows should be far enough apart and the plants far enough apart in the rows so that their roots will not interfere with each other in their search

for plant food, Crowded plants grow small and produce small and inferior fruit, while plants given plenty of room may grow to large size and produce an abundance of large, perfect fruit. wide as you want it and will not get

In planting and cultivating farm and garden crops we should always keep in mind the action of the roots.

To this end, the soil should be plowed or spaded deeply to make it soft and loose. After plowing, the soil must be made fine and even. It must not contain large, hard lumps

or clods for plant roots cannot easily and quickly grow through them.

Plowing the soil deeply allows the roots of cultivated plants to easily grow downward and outward. Making the soil fine with the harrow or other

cultivator not only makes it loose for

home for the roots of growing plants.

This means that such soil is in a good

This plum tree bears a very h

by the plow or harrow

life, health and growth of the roots. are growing the roots cannot act, and the whole plant sickens and dies. For instance, if water stands on a field of corn for a few days the corn will die.

The fruit grows in clusters, six or seven plums frequently being found for want of oxygen,

shut out needed light and air.

The young plant, too, must be kept growing vigorously all the time. If it is allowed once to become stunted in growth it can never afterward be to grow into a large, perfect

After field and garden plants grow

fill all the soil from row to row and millions. many thousands of them are near the

growing plants It is best farm and garden practice nearly fill our wants. to cultivate crops frequently and well while the plants are young; then there growers-or ought to be will be no need of cultivation when the plants are maturing or ripening.

mulberry trees and they plan to teach the coop he found the rooster strut-

BEE HIVE CONVENIENCE

The following is a description of an lighting board for bees which has Honey is Healthful and Always Put two small cleats on the under ide of the board with nails and then Marketed Properly. drive a % end of wire through the

BY F. G. HERMAN.

Honey does not injure the teeth as for most of the lung and throat affecliver oil. Honey is laxative and seda- give them good soil, proper cultivation,

Thousands of bees pour in and out of the hives many times a day; thou- growing season, especially, or you will sands more swarm over the combs, destroy the small roots feeding near prices higher than they have been for each untrammeled by rules and with the surface. no set task. No bee works for itself;

out of place either on a hive on the If you desire to advertise your honey and work up a trade, place your name Bend the wire at such length as to Bend the wire at such length as to leave no space for the bees to jump over from the board to the hive. An comb honey either have a printed carbon the property will furnish stuff to make old barrel will furnish stuff to make ton or stamp your name on the section them, some staves being plenty wide, with a rubber stamp. If you are capa- will be rooted by fall. ble of producing a fancy article you Don't forget that the currant worm country disease has killed millions of deserve the credit for it and all of hates powdered white hellebore, either sheep. the trade there is to be had. There is in dry form dusted upon the leaves or

SPRING BERRY NOTES

BLACKBERRIES AND RASPBERRIES. Don't neglect to cut out all of last Reduced Yield in Other Lands year's bearing canes, if you have not

lone so already. Don't forget to burn these old canes; they are a menace to the coming crop as they are likely to contain diseases

Don't overlook the fact that the suck-ers must be cut away from each hill leaving only four or five strong ones Don't act as though you had a

grudge against all these berries; but tive and is especially valuable in cases reasonable care and attention, and they will pay you in many ways.

Don't forget that these cane fruits the multitude works as though it were are not octogenarians; new plantations must be made every few years.

WOOL MARKET FAVORABLE

Has Given the Industry an Impetus in United States.

BY C. MILLER.

The fact that the woolen manufac turers of the United States have been obliged to import millions of pounds of wool in order to keep their mills going has revived interest in the question of sheep raising in many parts of the country where flocks have not Don't plow too deeply during the been maintained for many years, The demand for lamb and mutton at

a generation has kept down the flocks so that the total increase in the number of sheep in the United States has been but 10 per cent in twenty-five years.

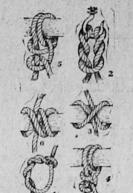
Don't fail to start a few new plants and wool has been greatly lessened in

The world's production both of sheep

In Australia only a narrow strip

SOME USEFUL ROPE TIES

Every boy on the farm ought to learn how to make knots which will hold and which can be easily untied. Some of the Things Which Are The following suggestions illustrated by the cuts will be helpful:



the strain the tighter it will hold. No. 2 is a catspaw, an endless loop

utilized where great power is required. in the soil in search of plant application around a pole. No. 4 is an application in securing a

rope to a timber used in scaffolding. when a thick rope is made fast to a ed their leaves struggle for free, open

No. 6 is a rolling hitch used chiefly

RAIL FENCE PHILOSOPHY

A great many men have beautiful theories about farming, but they do not struggle among the leaves. These men are like those dreamers who can write books telling people how to get to pay the rent. A farmer's success is not always and twigs.

measured by his acres. There are better things in life than mere land.

of a city theater, but sadly out of are able to do only a little work. place in a farmers' institute.

keep us busy cultivating the soil they open space. They carry their leaves may be blessings in disguise; but upward and outward to where they most of us would rather receive our can get plenty of sun forces and carblessings in the regular way.

the city and succeed there are all early in the season. They do this in thoroughbred.

farmer more good than to travel among shut them out. the successful farmers in other sections of the country and study their full leaf these early spring plants have conditions, study their system of crop finished their growth.

The man who is always asking your feeding you one form of flattery,

SKIM MILK FOR PIGS

Storrs Connecticut experiment sta-tion shows that skim milk alone is used in the food-making process, but more to produce 100 pounds of gain thrown off by the leaves.

eighty-six days. Three pigs fed skim into the air as vapor, Another belt interior to this but gain was .72 pound; 2,739 pounds of

The dry season is long, and it is pounds at the beginning, gained 119 vast amount of work. If, however, at



Three pigs fed grain and skim milk However, the United States is not pounds at the beginning, gained 110 applied with grit and patience, espe-(1 to 8), weighing on an average 25 around grape vines or bush fruits on the only country which shows a lan-pounds in 86 days. The average daily cially in the spring, will do the cows pounds in 86 days. The average daily cially in the spring, will do the cows pounds in 86 days. wash day. The dirty wash water con-guishing condition of the wool indus-gain was 1,28 pounds. The feed required for 100 pounds of gain was In Germany the decrease has been 1,341 pounds of skim milk



ginning, gained 40 pounds in 86 days. hay and supply their wants. If your lawn is larger than you can The average daily gain was 47 pound must miss the green grass dreadfully care for properly, plan now to have it The feed required for 100 pounds of these white days.

In this trial the largest and most Don't neglect to drop a few seeds of lots receiving milk and grain in com- to her manger the more milk she will into the side of the pail near the Place them low enough so that month for bloomers next year. Seed-by the lot receiving grain only. At the lings cost but little, while plants are arbitrary prices assumed for feed the expensive. Many beautiful things can lot receiving skim milk only made ter these cold nights. Chilly cows don't

BILL OF FARE FOR HENS

Wednesday-Morning grain, wheat; mash, cornmeal, shorts, vegetables, ground oats, bone meal; afternoon

ing food; mash, cornmeal, shorts, cut coal; afternoon grain, barley.

on grain, barley. Saturday-Morning grain, barley;

Necessary to the Growth of Trees and Plants.

When any substance is burned, or heated to a high degree, in a confined space where not much if any air can enter, it turns to charcoal.

This black charcoal is almost pure carbon, and makes up a large share of the cells and tissues of plants. This carbon comes to the leaves from the carbon dioxide of the air.

of this gas is required in summer to satisfy the needs of the millions of

the soil, and very large amounts come from the air Roots of plants push down and out

No. 3 is a clove hitch and shows its They struggle for their share when too many plants grow in one place. The same is true of leaves reach up and out in search of air

When leaves are shaded by the leaves in making one rope fast to another of other plants they are not able to get when held tight. as much air and light as they need,

Since so much carbon is required by growing plants, and there is so small an amount in the air, there is flerce stand the test of actual experiment. tries to get as much air and light as it

For this reason most of the leaves of the outermost and topmost branches

Those on the lower branches and near the center of the tree are shut Vaudeville is all right on the stage away from air and light, hence they

The boys who leave the farm for Many plants in the woods spring up

rotations and how they market their to sleep in the protecting soil to await

tities of water. It all flows to the leaves to mix An interesting feeding test by the with carbon dioxide and be made into

Water thrown off by the leaves in In this experiment the test covered the food-making process flies away

weighing on an average The vapor of course cannot be seen,

beet sugar, but it is sugar and costs millions.

This is not all reputation for yourself. Do this and bad, for the span or measuring worm that prefers gooseberry leaves.

This is not all reputation for yourself. Do this and your honey will sell itself. On sunny days and in dry weather

The average dally such times the soil should be dry the gain was 1.38 pounds; 935 pounds of leaves will give off more water than is supplied them; hence they wilt or

A man who is feeding silage this winter for the first time says that it is surprising how it cuts the cost of milk.

In every dairying neighborhood there are plenty of farmers who are feeding A curry comb and a good stiff brush

good and make them feel good, too.

Good authorities say it should take butter about three-quarters of an hour

cream or the churning room are too The cows need fresh air, exercise and all the sunshine they can get these

to come. If it does not perhaps the

days. The cows will pay us back in good

FED SKIM MILK AND GRAIN IN PROPOR- milk and butter if we remember that Never complain about a cow's big

economical gains were made by those appetite. The more hay you carry

give much milk, On bright days open the stable win-

dows and let the sunshine in. Then open the doors and let the cows out. Provide plenty of good bedding in

Every milker who is rough with the

cows should retire from that business

into milk she appreciates kindness. Dip the grain scoop deep when feed-

ing the heavy milker. Feed no dry, dusty fodder before

Friday - Morning grain, wheat; For the hundredth time! Wash the mash, cornmeal, shorts, vegetables, udder just before milking and wipe cut green bone, ground charcoal; after- with a clean cloth or sponge.

Abe Snyder, a farmer living near mash, cornmeal, shorts, vegetables, Owasso, Okla., was bitten by a covcut green bone, ground charcoal; afterdays afterward. The cow had been taking both hands, press the plant in previous to using it, because the water firmly, the harder the better, unless will cause it to become gogy and having good, fresh stock. Send your clover, ground oats, bone meal; after-

CURRANTS AND GOOSEBERRIES.

or a biscuit or cracker box, when one has no lumber to cut up. Wire should THINNING PLUM TREES

We have a small Burbank plum tree rapid root growth, but also makes it in its third year of bearing from which we thinned two bushels of young Fine, deep, fertile and well mixed fruit last season to prevent the breaksoil is said to make a comfortable ing of the limbs. Fully as much fruit

nany good qualities.

board and cleat, leaving out the stout end hook. Hook the stout end into

the entrance so as to catch inside of

the hive. Your alighting board is as

ground or on one on a high bench.

This plum tree bears a very heavy condition for rapid root action, hence crop every year. That is its only a correspondingly rapid growth of the fault-setting such a heavy crop that it causes the death of the tree unless Most cultivated plants are planted severely thinned. Those who do not in the spring or early summer when have the courage to properly thin the trees often find them dead the fol-When they first begin to grow their lowing spring. It is a Japanese plum roots are short, hence cultivation should originated by Luther Burbank of Calibe done while they are young.

The reasons for this are that the many remarkable plums this seems to fornia, and though he has originated cultivator breaks to pieces clods left be the best, all things considered. It is perfectly hardy everywhere, re-Stirring of the soil mixes it and quiring little except close care and makes it fine and allows the entrance pruning and thinning the fruit. The of air, which is also needed for the tree is not handsome, being of sprawling growth and long, slender branches If the air is shut out of the soil in and being flat on top and broad rather which plants such as corn and potatoes than tall. When loaded with fruit,

The standing water sinks into the soil and, being heavier than air, it forces the air out and the corn roots smother Other reasons for giving plants most cultivation when they are young are for the killing of weeds which would small. The plants are fine for use small. The plants are fine for use on a decided purple shade if left till rob them of plant food in the soil and when fresh, but also can well, the pulp adhering to the pit so firmly that Also at that time the cultivator may be run deep and close to the plants without injury to their roots.

pulp adhering to the pit so firmly that they retain their shape well when cooked.—Mrs. H. H. Woodward, Michigan

igan.

WE ARE FOND OF SUGAR Uncle Sam has a big sweet tooth We Yankees consume nearly 400,000

surface. If the cultivator shovels run tories working three months each year, deep they will destroy many of the grinding, boiling and squeezing the feeding roots, and hence injure the sugar out of nearly 40,000 tons of beets every working day, but this does not

These facts are encouraging to beet

Cultivation in general should have lantic City, N. J., by a game rooster as its aim the keeping of the surface owned by John Carroll. The fox seized layer of the soil broken and in a fine a plump hen from the roost, and the

tons of beet sugar every year and still large and need cultivation to kill weeds and admit air into the soil the cultivation then should be shallow.

tons of beet sugar every year and still are hungry enough to buy 3,000,000 nothing like establishing a good, honest in solution. This is also good, or rather tons more from Europe. This is not all bud, for the span or measuring worm tons more from Europe. This is not all bud, for the span or measuring worm farming. We have fifty-seven sugar-beet fac-

A full-grown fox was killed at Atgame cock flew at him. He sunk his

MACADAM ROADS

ting over the fox's body.

BY AUSTIN B, FLETCHER. The macadam type of road surfacing sage of wheels over them. is particularly well adapted to main Until within comparatively recent highways connecting centers of popu-

and large towns and it is usually too sary for good results. expensive for country roads other than the main highways. When a road built of gravel is not in place, the theory being that the

macadam surfacing may usually be substituted for the gravel with satis-factory results Sometimes a macadam surface may and impervious to water. Much atbe used with economy when the con-tention must be given to the foundaditions are such that a gravel surface tion. It should be composed of porous

shoulders are built on Twelve feet allows two vehicles to pass in unusual cases, a depth greater than each other safely. Fifteen feet is six inches after rolling is rarely necesmoter vehicles are passing each other. The ordinary macadam road is

lation on which there is moderate the practice to build thick macadalic roads. Roads less than eight inches It is not an economical form of a thickness of at least twelve inches rows two or two and a half feet wide

> the macadam surface as thin as pos-The macadam should be hard, smooth

would satisfy the demands of traffic material free from clay or loam, firm, but good gravel cannot be obtained at and sufficiently strong to sustain any reasonable cost.

For ordinary country roads experience has shown that the broken-stone surface need not be more than from been laid before, three inches of masurface need not be more than from been laid before, three inches of masurface need not be more than from been laid before, three inches of masurface need not be more than from been laid before, three inches of masurface need not be more than from been laid before, three inches of masurface need not be more than from been laid before, three inches of masurface need not be more than from the laid before inches of the laid before twelve to fifteen feet wide if suitable cadam after rolling is the least thick-

If the stone is less than twelve feet usually from twelve to sixteen feet wide there is a likelihood that the wide, with shoulders three to five feet edges of the macadam will be sheared in width on each side of the broken off by wheels unless the shoulders are stone. The thickness of the macadam made of especially good material, is usually six inches at the center and Whatever may be the width of the four inches at the sides, or a uniform stone, the shoulders should be firm depth of six inches throughout.

HONEY BEES PROFITABLE

Commands a Good Price if

andy does. It is an excellent remedy to each hill for next year's crop. tions and is a good substitute for cod

of bladder and kidney diseases.

CHAMPIONSHIP WINNER



Dr. Hartman, winner of first and reserve championship, World's Fair, St. Louis, 1904. Owned by J. F. Cook

& Co., Lexington, Ky.

twenty-four hours a day. There is five to eight bearing branches—that is, fill and provide stores for the long plenty of work for them to do in the if you want exhibition berries.

hive at night, such as evaporating the honey, building comb, etc It is the custom of bee keepers gen erally to select warm and clear day long spurs into the fox's eye, reaching the hive. The older bees that constiin which to perform the operations of The Ladies' Silk Culture society of the brain. The Reynard fell over a carroll opened tute the field force are out then in quest of nectar and pollen and the quest of nectar and pollen and the

formed. that are out in the fields gathering nectar and pollen very seldom volunteer an attack. Of course a bee

content, and the old home is becoming too crowded. Besides, it is nature's way of providing increase and pro-

start the cultivator just as soon as I get through setting and keep it going

as the weeds show themselves. percentage of winter-killed plants that ad to be reset in the spring and, worst

of all, an inferior quality of fruit. So abandoned fall setting altogether. I do not trim the roots, although I like the plan. Time is worth too much I use in setting a hoe. Buy a new hoe, as good a one as I can find; cu the handle off to fifteen to eighteen inches long, then cut one side of the ho off to a point, the right side for right-hand man and the left side for left-hand man. I find this tool very valuable in weeding, so much so that

Don't think any old corner in the

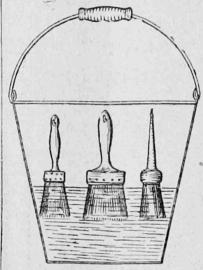
HINTS ON FARM WORK Fowls showing symptoms of tuber-

choose those of medium size, perfect the amount needed by our manufacturers sheep raising will remain a very skim milk, 233 pounds of grain were a dozen cows the year around to pro-

leaves the grass roots in the best

is plowed the next year, by plowing six or eight inches deep the richest quickest market. A lamb can be turned part of the soil is not on top where the into money in a much shorter time Carrots and mangel-wurzels, or man-advantageous the lambs go to the golds, are two neglected crops that are butcher, valuable and easily grown. Either of

Take a common water pail, paint it over-cultivation. I narrow up the cul- nails into the side of the pail near the the pail is half filled with water



period of drought, For the past few years the heat and drought in Australia have been extraordinary. The water holes have dried up and millions of sheep have perished

the amount needed by our manufacshape and having shells that are evenly colored, instead of spotted or streaked with two shades, as this denotes unwith two shades, as this denotes unwool market. The washtubs should be emptied

furnishes but little more than half of

low price of wool or of the high price Three pigs fed grain only, weighing milking. Milk is just like a sponge of lambs we are not advised; although on an average 25.3 pounds at the bestubble land; but in plowing sod for it is likely that owing to the higher corn four inches is plenty deep. This prices for meats which have prevailed in Germany in the last few years the places for corn to benefit by the plant flocks have gone to the butchers, as food they contain, and when the land they have in our own country.

The farmer naturally favors the

than wool, and when the prices are

YARD AND GARDEN of suitable size by filling in with hardy, gain was 445 pounds and cost \$4.45. thrifty growers that will take care of

be raised from a package of mixed gains at the the greatest cost. seeds of perennials a good time to plan changes in the border and the flower garden, and do not make the same mistake this year and plant the tall growers in front of the low ones; in grouping ill-matched plants and mixing inharmoni-

In arranging the home lot, whether for fruit, shade or ornament, plant the tallest growers well to the rear, grading down to the lowest or creeping things, letting the rows run east to west, that all may have the sunshine. They can thus be seen to the best advantage and prove a joy forever.

Don't buy spongy, soft bulbs if you want good results. The bulbs worth having are solid and heavy. Heavy it so that the roots will be straight brushes can be kept in fine condition Dutch bulbs of the single variety make down in the ground, I then place the just as long as water is kept in the fine plants and give fine spikes of plant in and withdraw the hoe, and, pail. Never place a brush in water

Monday - Morning grain, wheat; mash, gluten meal, shorts, ground oats, cut clover, meat scraps, charcoal; afternoon grain, barley. Tuesday-Morning grain, barley; mash, corn meal, shorts, cut clover cut green bone; afternoon grain, buck- at once. wheat.

Thursday-Morning grain, scratchever out of place. Many of the clover, cut green bone, ground char-

noon grain, wheat.

CHEMISTRY OF GROWTH

BY H. H. SHEPARD.

Thus it is plain that a large amount

growing plants. Plant foods are taken from the soil and air. Small amounts come from

No. 5 is a fisherman's bend, useful light. When growing plants are crowd-

hence their growth and fruitfulness are checked.

rich, but who have to borrow money a tree and of many other plants are on

lace in a farmers' institute.

Climbing vines creep and clamber up
Some one has said that as weeds and over high objects to get into free,

order to get needed light and air be There is no one thing that does a fore the trees put forth their leaves to When the forest trees have come into

the coming of the new spring. Besides eating carbon dioxide from advice seldom follows it. He is just the air and taking in sunshine, growing leaves give off water. When the roots drink up foods from the soil, these foods are dissolved in large quan-

oo bulky for pigs and that it costs a large amount is not needed and is

USEFUL DAIRY SUGGESTIONS

Hurry the pails of fresh milk out of the stable just as soon as you can after about taking in foul odors.

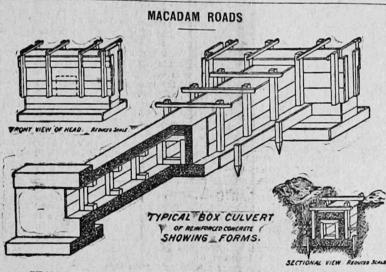
they enjoy vegetables along with their

See that the cows have a warm shel-

If a cow is a machine to change food

nilking. If dusty, sprinkle.

milking her.



STANDARD CULVERT OF MASSACHUSETTS STATE ROADS, enough to permit the occasional pas-

pavement for the main streets of cities of macadam was thought to be neces- Right here let me say that I long ago It resembles closely a gravel road, sible, yet with sufficient body to stay quite sufficient to resist successfully macadam is only a wearing surface. the wear and tear of the traffic over it By lessening the thickness of the

each side, ness which is practicable; and, except

The more recent practice is to make

One day while working in the apiary a gentleman watched me. He was anxious to know how I managed to get berry. Just get a few really fine sorts the honey from the hives. He asked, and give them good care and see what on this belt the vast flocks of sheep the honey from the hives. He asked, and give them good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on this belt the vast flocks of sheep the good care and see what on the good care and see what of good care and see what of good care and good car are asleep?" That, of course, would with half a chance, be the very worst time of all, for bees Don't neglect to co know nothing about sleep, but work

manipulations are more easily per-

hive should not be pulled apart every few days for mere curiosity, but exunined only occasionally to ascertain Why do bees swarm, anyway? Why don't they settle down and stick to their knitting instead of breaking up housekeeping just at a time when everything begins to look prosperous? Well, the fact is prosperity breeds dis-

longing the race. Providence has given the honey bee this instinct.

STRAWBERRY PLANTING My strawberries are set out the first them produces heavily on good corn week in May, and it takes a week to land and makes excellent winter feed dig and set the plants, which is plenty for all kinds of live stock and poultry. long enough to leave the weeds, so I

I think that there is no danger of tivator as the runners spread and try top. thick were rarely heard of, and often to leave the plants in uniform matted gave up trying to carry over an old bed, as I would rather set new every spring and care for the new bed than clean out an old one. I used to try setting in the fall, but it only gave me extra work in weeding with a greater

> most of my men choose it in preference to any other. Taking this hoe and sticking it into

Don't neglect to cut out all the old necessary to resort to water holes, shoots of the currants, and allow only which the rains, in their brief season,

ulosis should be killed and burned or of thirst. buried away from where the rest of as the wool supply of the United States When selecting eggs for hatching

tilizing matter which is lost if the water is poured into a drain to pro- marked, but whether because of the pounds of grain and cost \$4.36. To plow deep is all right if it is

TO KEEP PAINT BRUSHES SOFT

